

## TABLE OF CONTENTS

### QUANTERRA INCORPORATED PROJECT NUMBER 098162

Case Narrative

Quanterra's Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

Project Receipt Checklist

#### TCL Organochlorine Pesticides/PCBs - Method 8080

Sample(s): 1 - 8

    Sample Data Sheets

    Method Blank Reports

    Laboratory QC Reports

#### Chlorinated Phenoxyacid Herbicides - Method 8150

Sample(s): 1-8

    Sample Data Sheets

    Method Blank Reports

    Laboratory QC Reports

#### Subcontracted Analysis (North Coast Laboratories)

#### Organophosphorus Pesticides - Method 8141

Sample(s): 1 - 8

    Sample Data Sheets

    Method Blank Reports

    Laboratory QC Reports

## CASE NARRATIVE

### QUANTERRA INCORPORATED PROJECT NUMBER 098162

#### General Comments

Sampels were received at 2 degrees Centigrade (C), which is within the 4 +/- 2 degree range specified for the preservation of environmental samples.

Analyses were specified as Herbicides method 8150/8151, Chlorinated Pesticides and PCBs by method 8080/8081 and Organophosphorous Pesticides by method 8140/8141. Standard analyte lists provided by Quanterra were approved by Melissa Hanson on March 23, 1998, and were used in lieu of the abbreviated analyte lists which accompanied the Chain of Custody Record (COC).

The container for sample "980222-8" was received with a cracked lid. Discussion of the receipt anomaly and permission to proceed with analysis was confirmed on April 6, 1998, by verbal authorization from Melissa Henson.

Preliminary results for the Chlorinated Pesticides and Herbicides (methods 8080 and 8150) were provided via facsimile on April 13, 1998.

#### Organochlorine Pesticides - Method 8080

The method blank, LCS, MS/MSD and surrogate recoveries all QC criteria, with the following exceptions.

Samples 980222-1, 980222-2, and 980222-5 (Laboratory ID's 098162-0001 (including the MS/MSD), -0002, and -0005) required dilution due to matrix interferences, and as a result the surrogate compounds and matrix spike compounds were not detected. Since the method blank and LCS met QC criteria, demonstrating that the method was operating in control, the data were accepted as valid.

Mercury clean-up was performed at least five times on 980222-1 (sample and MS/MSD), 980222-2 and 980222-5 prior to analysis due to apparent high levels of sulfur observed in analytical pre-screening. The extracts for sample 980222-1 (sample and MS/MSD) were yellow in color; the extracts for 980222-2 and 980222-5 were clear. The clean-up procedure may not have completely eliminated the sulfur interference; however, five clean-up steps is typically considered exhaustive without jeopardizing sample recoveries.

## CASE NARRATIVE

### QUANTERRA INCORPORATED PROJECT NUMBER 098162

#### **Chlorinated Phenoxyacid Herbicides - Method 8150**

The matrix spike/spike duplicate (MS/MSD) performed on sample 980222-3 showed low percent recovery of the compound Dinoseb and 2,4,5-TP. Since the method blank and LCS met QC criteria, demonstrating that the method was operating in control, the data were accepted as valid.

#### **Subcontracted Analysis (North Coast Laboratories)**

#### **Organophosphorus Pesticides - Method 8141**

Sample preparation was completed by Quanterra; however, Quanterra was unable to complete the 8140/8141 analysis due to persistent instrument problems. On April 28, 1998 Melissa Henson approved a request to subcontract the analysis to North Coast Laboratories in Arcata, California, and the sample extracts were sent out to North Coast on April 29, 1998. Despite these efforts to prevent potential difficulties, the analytical holding time for the Organophosphorous Pesticides was exceeded due to scheduling problems at North Coast Laboratories. Data for malathion and fensulfothion were not provided by the subcontracting laboratory.

During sample preparation, sample 980222-7 lost an unknown volume due to a leaking joint in the concentrator tube. This sample was re-extracted with additional matrix QC, and both extracts were provided for analysis. However, only the initial extract data were provided by the subcontracting laboratory due to the extract holding time.

Quanterra data sheets are provided for the QC section of this report. These include percent recovery and %RPD calculations. The method blank, LCS, MS/MSD and surrogate recoveries all QC criteria, with the following exceptions.

The matrix spike and matrix spike duplicate for tetrachlorvinphos demonstrated high recovery. Phosdrin and tetrachlorvinphos also showed high recovery in the laboratory control sample. Due to sample holding times, these samples were not re-extracted.

There were no other anomalies associated with this project.

*Quanterra - Western Region*  
**Quality Control Definitions**

QC Parameter	Definition
QC Batch	A set of up to 20 field samples plus associated laboratory QC samples that are similar in composition (matrix) and that are processed within the same time period with the same reagent and standard lots.
Duplicate Control Sample (DCS)	Consist of a pair of LCSs analyzed within the same QC batch to monitor precision and accuracy independent of sample matrix effects. This QC is performed only if required by client or when insufficient sample is available to perform MS/MSD.
Duplicate Sample (DU)	A second aliquot of an environmental sample, taken from the same sample container when possible, that is processed independently with the first sample aliquot. The results are used to assess the effect of the sample matrix on the precision of the analytical process. The precision estimated using this sample is not necessarily representative of the precision for other samples in the batch.
Laboratory Control Sample (LCS)	A volume of reagent water for aqueous samples or a contaminant-free solid matrix (Ottawa sand) for soil and sediment samples which is spiked with known amounts of representative target analytes and required surrogates. An LCS is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects.
Matrix Spike and Matrix Spike Duplicate (MS/MSD)	A field sample fortified with known quantities of target analytes that are also added to the LCS. Matrix spike duplicate is a second matrix spike sample. MSs/MSDs are carried through the entire analytical process and are used to determine sample matrix effect on accuracy of the measurement system. The accuracy and precision estimated using MS/MSD is only representative of the precision of the sample that was spiked.
Method Blank (MB)	A sample composed of all the reagents (in the same quantities) in reagent water carried through the entire analytical process. The method blank is used to monitor the level of contamination introduced during sample preparation steps.
Surrogate Spike	Organic constituents not expected to be detected in environmental media and are added to every sample and QC at a known concentration. Surrogates are used to determine the efficiency of the sample preparation and the analytical process.

Source: Quanterra® Quality Control Program, Policy QA-003, Rev. 0, 8/19/96.

SAMPLE DESCRIPTION INFORMATION  
for  
Environmental Chemistry, Inc.

Lab ID	Client ID	Matrix	Sampled Date	Received Time	Received Date
098162-0001-SA	980222-1	SOIL	18 MAR 98	15:09	20 MAR 98
098162-0002-SA	980222-2	SOIL	18 MAR 98	15:25	20 MAR 98
098162-0003-SA	980222-3	SOIL	18 MAR 98	15:45	20 MAR 98
098162-0004-SA	980222-4	SOIL	18 MAR 98	16:15	20 MAR 98
098162-0005-SA	980222-5	SOIL	18 MAR 98	17:10	20 MAR 98
098162-0006-SA	980222-6	SOIL	18 MAR 98	17:35	20 MAR 98
098162-0007-SA	980222-7	SOIL	18 MAR 98	17:55	20 MAR 98
098162-0008-SA	980222-8	SOIL	18 MAR 98	12:00	20 MAR 98

# Environmental Chemistry, Inc.

FAC. 11, LAGAS / UJ  
(713) 666-0020

Client Name: ECL  
Address: \_\_\_\_\_  
Phone To: Melissa Henderson  
Voice To: Melissa Henderson

Project: 980222  
P.O. Number: 980222  
Sampled By: \_\_\_\_\_

Comments:  
SUB to Quanterra - West Sacramento Lab

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	MATRIX	NUMBER OF CONTAINERS	LABORATORY IDENTIFICATION	
				Preservation Codes	Container Type
980222-1	3-18-98 1509	SOI	1	X	
-2	1525		1	X	
-3	1545		1	X	
-4	1545		1	X	
-5	1710		1	X	
-6	1735		1	X	
-7	1755		1	X	
-8	1700		1	X	
					Lid Recd Sealed <u>Q</u>

Sealed for Shipping By: Michelle Phoenix Date/Time: 3/19/98 1530  
 Cooler Temperature: \_\_\_\_\_  
 Method of Shipment: \_\_\_\_\_  
 Bill of Lading Number: \_\_\_\_\_  
 Disinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Disinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Disinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received for Laboratory By: Michelle Phoenix Date/Time: 0300098 2000  
 Custody Seal Present  Yes  No  
 Cooler Temperature: 29 Intact  Yes  No

980222

Page # 1

March 19, 1998

DESC

etan  
Diazinon  
Guthion  
Malathion  
Parathion

	LOQ
zin	5
HC	5
ordane	100
'-DDT	5
'-DDE	5
'-DDD and $\beta$ -Endosulfan	5
ldrin	5
ndosulfan	5
ndosulfan	20
osulfan sulfate	20
rin	5
rin aldehyde	5
tachlor	5
tachlor epoxide	5
'-1242	110
'-1254	110
'-1221	110
'-1232	110
'-1248	110
'-1260	110
'-1016	110
caphene	200



# **Chlorinated Phenoxyacid Herbicides**

## **-Method 8150**

**Chlorinated Phenoxyacid Herbicides**  
**Second Column**  
**Method 8150**

Client Name: Environmental Chemistry, Inc.

Client ID: 980222-1 SB-1

LAB ID: 098162-0001-SA

Matrix: SOIL

Authorized: 20 MAR 98

Sampled: 18 MAR 98  
 Prepared: 27 MAR 98

Received: 20 MAR 98  
 Analyzed: 31 MAR 98

Dilution Factor: 1.0

Parameter	Result	Units	Reporting Limit	Qualifier
2,4-D	ND	ug/kg	25	
2,4-DB	ND	ug/kg	100	
2,4,5-TP (Silvex)	ND	ug/kg	5.0	
2,4,5-T	ND	ug/kg	5.0	
MCPP	ND	ug/kg	5000	
MCPA	ND	ug/kg	5000	
Dinoseb (DNBP)	ND	ug/kg	25	
Dalapon	ND	ug/kg	100	
Dichlorprop	ND	ug/kg	25	
Dicamba	ND	ug/kg	10	

Surrogate	Recovery	Acceptable Range
2,4-DCAA	77 %	25 - 159

ND = Not Detected

Reported By: Jon Edmondson

Approved By: Karla Buechler

The cover letter is an integral part of this report.  
 Rev 230787



Environmental  
Services

Chlorinated Phenoxyacid Herbicides  
Second Column  
Method 8150

Client Name: Environmental Chemistry, Inc.

Client ID: 980222-2 SB-2

LAB ID: 098162-0002-SA

Matrix: SOIL

Authorized: 20 MAR 98

Sampled: 18 MAR 98

Prepared: 27 MAR 98

Received: 20 MAR 98

Analyzed: 31 MAR 98

Dilution Factor: 1.0

Parameter	Result	Units	Reporting Limit	Qualifier
2,4-D	ND	ug/kg	25	
2,4-DB	ND	ug/kg	100	
2,4,5-TP (Silvex)	ND	ug/kg	5.0	
2,4,5-T	ND	ug/kg	5.0	
MCPP	ND	ug/kg	5000	
MCPA	ND	ug/kg	5000	
Dinoseb (DNBP)	ND	ug/kg	25	
Dalapon	ND	ug/kg	100	
Dichlorprop	ND	ug/kg	25	
Dicamba	ND	ug/kg	10	
Surrogate	Recovery		Acceptable Range	
2,4-DCAA	65 %		25 - 159	

ND = Not Detected

Reported By: Jon Edmondson

Approved By: Karla Buechler

The cover letter is an integral part of this report.  
Rev 230787

Chlorinated Phenoxyacid Herbicides  
Second Column  
Method 8150

Client Name: Environmental Chemistry, Inc.

Client ID: 980222-3 SB-3

LAB ID: 098162-0003-SA

Matrix: SOIL

Authorized: 20 MAR 98

Sampled: 18 MAR 98  
Prepared: 27 MAR 98

Received: 20 MAR 98

Analyzed: 01 APR 98

Dilution Factor: 1.0

Parameter	Result	Units	Reporting Limit	Qualifier
2,4-D	ND	ug/kg	25	
2,4-DB	ND	ug/kg	100	
2,4,5-TP (Silvex)	ND	ug/kg	5.0	
2,4,5-T	ND	ug/kg	5.0	
MCPP	ND	ug/kg	5000	
MCPA	ND	ug/kg	5000	
Dinoseb (DNBP)	ND	ug/kg	25	
Dalapon	ND	ug/kg	100	
Dichlorprop	ND	ug/kg	25	
Dicamba	ND	ug/kg	10	

Surrogate	Recovery	Acceptable Range
2,4-DCAA	71 %	25 - 159

ND = Not Detected

Reported By: Jon Edmondson

Approved By: Karla Buechler

The cover letter is an integral part of this report.  
Rev 230787

**Chlorinated Phenoxyacid Herbicides**  
**Second Column**  
**Method 8150**

Client Name: Environmental Chemistry, Inc.

Client ID: 980222-4 SB-4

LAB ID: 098162-0004-SA

Matrix: SOIL

Authorized: 20 MAR 98

Sampled: 18 MAR 98

Prepared: 27 MAR 98

Received: 20 MAR 98

Analyzed: 01 APR 98

Dilution Factor: 1.0

Parameter	Result	Units	Reporting Limit	Qualifier
2,4-D	ND	ug/kg	25	
2,4-DB	ND	ug/kg	100	
2,4,5-TP (Silvex)	ND	ug/kg	5.0	
2,4,5-T	ND	ug/kg	5.0	
MCPP	ND	ug/kg	5000	
MCPA	ND	ug/kg	5000	
Dinoseb (DNBP)	ND	ug/kg	25	
Dalapon	ND	ug/kg	100	
Dichlorprop	ND	ug/kg	25	
Dicamba	ND	ug/kg	10	
Surrogate	Recovery		Acceptable Range	
2,4-DCAA	74 %		25 - 159	

ND = Not Detected

Reported By: Jon Edmondson

Approved By: Karla Buechler

The cover letter is an integral part of this report.  
 Rev 230787

**Chlorinated Phenoxyacid Herbicides  
Second Column  
Method 8150**

Client Name: Environmental Chemistry, Inc.

Client ID: 980222-5 SB-5

LAB ID: 098162-0005-SA

Matrix: SOIL

Authorized: 20 MAR 98

Sampled: 18 MAR 98  
Prepared: 27 MAR 98

Received: 20 MAR 98  
Analyzed: 01 APR 98

Dilution Factor: 1.0

Parameter	Result	Units	Reporting Limit	Qualifier
2,4-D	ND	ug/kg	25	
2,4-DB	ND	ug/kg	100	
2,4,5-TP (Silvex)	ND	ug/kg	5.0	
2,4,5-T	ND	ug/kg	5.0	
MCPP	ND	ug/kg	5000	
MCPA	ND	ug/kg	5000	
Dinoseb (DNBP)	ND	ug/kg	25	
Dalapon	ND	ug/kg	100	
Dichlorprop	ND	ug/kg	25	
Dicamba	ND	ug/kg	10	
Surrogate		Recovery		Acceptable Range
2,4-DCAA		76 %		25 - 159

ND = Not Detected

Reported By: Jon Edmondson

Approved By: Karla Buechler

The cover letter is an integral part of this report.  
Rev 230787

Chlorinated Phenoxyacid Herbicides  
Second Column  
Method 8150

Client Name: Environmental Chemistry, Inc.

Client ID: 980222-6 SB-6

LAB ID: 098162-0006-SA

Matrix: SOIL

Authorized: 20 MAR 98

Sampled: 18 MAR 98

Prepared: 27 MAR 98

Received: 20 MAR 98

Analyzed: 01 APR 98

Dilution Factor: 1.0

Parameter	Result	Units	Reporting Limit	Qualifier
2,4-D	ND	ug/kg	25	
2,4-DB	ND	ug/kg	100	
2,4,5-TP (Silvex)	ND	ug/kg	5.0	
2,4,5-T	ND	ug/kg	5.0	
MCPP	ND	ug/kg	5000	
MCPA	ND	ug/kg	5000	
Dinoseb (DNBP)	ND	ug/kg	25	
Dalapon	ND	ug/kg	100	
Dichlorprop	ND	ug/kg	25	
Dicamba	ND	ug/kg	10	
Surrogate	Recovery		Acceptable Range	
2,4-DCAA	75 %		25 - 159	

ND = Not Detected

Reported By: Jon Edmondson

Approved By: Karla Buechler

The cover letter is an integral part of this report.  
Rev 230787



Environmental  
Services

Chlorinated Phenoxyacid Herbicides  
Second Column  
Method 8150

Client Name: Environmental Chemistry, Inc.

Client ID: 980222-7 SB-7

LAB ID: 098162-0007-SA

Matrix: SOIL

Authorized: 20 MAR 98

Sampled: 18 MAR 98  
Prepared: 27 MAR 98

Received: 20 MAR 98  
Analyzed: 01 APR 98

Dilution Factor: 1.0

Parameter	Result	Units	Reporting Limit	Qualifier
2,4-D	ND	ug/kg	25	
2,4-DB	ND	ug/kg	100	
2,4,5-TP (Silvex)	ND	ug/kg	5.0	
2,4,5-T	ND	ug/kg	5.0	
MCPP	ND	ug/kg	5000	
MCPA	ND	ug/kg	5000	
Dinoseb (DNBP)	ND	ug/kg	25	
Dalapon	ND	ug/kg	100	
Dichlorprop	ND	ug/kg	25	
Dicamba	ND	ug/kg	10	

Surrogate	Recovery	Acceptable Range
2,4-DCAA	70 %	25 - 159

ND = Not Detected

Reported By: Jon Edmondson

Approved By: Karla Buechler

The cover letter is an integral part of this report.  
Rev 230787



Environmental  
Services

Chlorinated Phenoxyacid Herbicides  
Second Column  
Method 8150

Client Name: Environmental Chemistry, Inc.

Client ID: 980222-8 SB-X

LAB ID: 098162-0008-SA

Matrix: SOIL

Authorized: 20 MAR 98

Sampled: 18 MAR 98

Prepared: 27 MAR 98

Received: 20 MAR 98

Analyzed: 01 APR 98

Dilution Factor: 1.0

Parameter	Result	Units	Reporting Limit	Qualifier
2,4-D	ND	ug/kg	25	
2,4-DB	ND	ug/kg	100	
2,4,5-TP (Silvex)	ND	ug/kg	5.0	
2,4,5-T	ND	ug/kg	5.0	
MCPP	ND	ug/kg	5000	
MCPA	ND	ug/kg	5000	
Dinoseb (DNBP)	ND	ug/kg	25	
Dalapon	ND	ug/kg	100	
Dichlorprop	ND	ug/kg	25	
Dicamba	ND	ug/kg	10	
Surrogate		Recovery	Acceptable Range	
2,4-DCAA		75 %	25 - 159	

ND = Not Detected

Reported By: Jon Edmondson

Approved By: Karla Buechler

The cover letter is an integral part of this report.

Rev 230787

QC LOT ASSIGNMENT REPORT - MS QC  
Semivolatile Organics by GC

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
098162-0001-SA	SOIL	8150-S	-	27 MAR 98-11B	27 MAR 98-11B
098162-0002-SA	SOIL	8150-S	-	27 MAR 98-11B	27 MAR 98-11B
098162-0003-SA	SOIL	8150-S	-	27 MAR 98-11B	27 MAR 98-11B
098162-0004-SA	SOIL	8150-S	-	27 MAR 98-11B	27 MAR 98-11B
098162-0005-SA	SOIL	8150-S	-	27 MAR 98-11B	27 MAR 98-11B
098162-0006-SA	SOIL	8150-S	-	27 MAR 98-11B	27 MAR 98-11B
098162-0007-SA	SOIL	8150-S	-	27 MAR 98-11B	27 MAR 98-11B
098162-0008-SA	SOIL	8150-S	-	27 MAR 98-11B	27 MAR 98-11B

METHOD BLANK REPORT  
Semivolatile Organics by GC  
Project: 098162

Test: 8150-SW-S                           Chlorinated Phenoxyacid Herbicides  
 Method: 8150  
 Matrix: SOIL  
 QC Lot: 27 MAR 98-11B                   QC Run: 27 MAR 98-11B  
 Analyzed: 31 MAR 98                       Time: 21:12

Analyte	Result	Units	Reporting Limit	Qualifier
2,4-D	ND	ug/kg	25	
2,4-DB	ND	ug/kg	100	
2,4,5-TP (Silvex)	ND	ug/kg	5.0	
2,4,5-T	ND	ug/kg	5.0	
MCPP	ND	ug/kg	5000	
MCPA	ND	ug/kg	5000	
Dinoseb (DNBP)	ND	ug/kg	25	
Dalapon	ND	ug/kg	100	
Dichlorprop	ND	ug/kg	25	
Dicamba	ND	ug/kg	10	
Surrogate				
2,4-DCAA	% Recovery		Acceptable Range	
	95		25 -159	

ND = Not Detected

LABORATORY CONTROL SAMPLE REPORT  
Semivolatile Organics by GC  
Project: 098162

Category: 8150-S      Herbicides  
Testcode: 8150-SW-S  
Matrix: SOIL  
QC Lot: 27 MAR 98-11B  
Analyzed Date: 31 MAR 98      Time: 21:57

Method: 8150  
Concentration Units: ug/kg  
QC Run: 27 MAR 98-11B

Analyte	-----Concentration-----		Accuracy(%)	
	Spiked	Measured	LCS	Limits
2,4-D	16.0	16.6	104	36-134
2,4,5-TP (Silvex)	4.00	3.09	77	56-114
2,4,5-T	4.00	3.91	98	45-129
Dinoseb (DNBP)	2.40	1.16	49	30-120

Surrogate	-----Concentration-----		Accuracy(%)	
	Spiked	Measured	LCS	Limits
2,4-DCAA	20.0	18.7	94	25-159

Calculations are performed before rounding to avoid round-off errors in calculated results.

IX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT  
 volatile Organics by GC  
 ject: 098162

egory: 8150-S      Herbicides  
 t : 8150-SW-S  
 rix : SOIL  
 ple : 098162-0003  
 Run : 27 MAR 98-11B  
 ts : ug/kg

Method: 8150

## -----Concentration-----

nalyte	Sample	MS	MSD	Amount		%Recovery		%RPD	Acceptance	
	Result	Result	Result	Spiked	MS	MSD	MS	MSD	Recov.	Limit
-D	ND	12.9	15.8	16.0	16.0		81	99	20	36-134 50
,5-TP (Silvex)	ND	2.01	2.66	4.00	4.00		50	66	28	56-114 27
,5-T	ND	2.70	3.33	4.00	4.00		67	83	21	45-129 54
oseb (DNBP)	ND	0.646	0.684	2.40	2.40		27	29	5.7	30-120 40
Surrogates		Sample		%Recovery		MS		MSD	Acceptance Limit	
-DCAA		%Recovery						Recovery		
		71.0		69.0		86.0			25-159	

= Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

# TCL Organochlorine Pesticides - Method 8080



Environmental  
Services

TCL Organochlorine Pesticides/PCBs  
Method 8080

Client Name: Environmental Chemistry, Inc.

Client ID: 980222-1 SB-1

LAB ID: 098162-0001-SA

Matrix: SOIL

Authorized: 20 MAR 98

Sampled: 18 MAR 98

Prepared: 26 MAR 98

Received: 20 MAR 98

Analyzed: 10 APR 98

Dilution Factor: 50

Parameter	Wet wt. Result	Units	Reporting Limit	Qualifier
alpha-BHC	ND	ug/kg	400	G
beta-BHC	ND	ug/kg	400	
delta-BHC	ND	ug/kg	400	
gamma-BHC (Lindane)	ND	ug/kg	400	
Heptachlor	ND	ug/kg	400	
Aldrin	ND	ug/kg	400	
Heptachlor epoxide	ND	ug/kg	400	
Endosulfan I	ND	ug/kg	400	
Die�drin	ND	ug/kg	800	
4,4'-DDE	ND	ug/kg	800	
Endrin	ND	ug/kg	800	
Endosulfan II	ND	ug/kg	800	
4,4'-DDD	ND	ug/kg	800	
Endosulfan sulfate	ND	ug/kg	800	
4,4'-DDT	ND	ug/kg	800	
Endrin aldehyde	ND	ug/kg	800	
Ethoxychlor	ND	ug/kg	4000	
alpha-Chlordane	ND	ug/kg	400	
gamma-Chlordane	ND	ug/kg	400	
Toxaphene	ND	ug/kg	8000	
Aroclor 1016	ND	ug/kg	4000	
Aroclor 1221	ND	ug/kg	4000	
Aroclor 1232	ND	ug/kg	4000	
Aroclor 1242	ND	ug/kg	4000	
Aroclor 1248	ND	ug/kg	4000	
Aroclor 1254	ND	ug/kg	8000	
Aroclor 1260	ND	ug/kg	8000	

Surrogate	Recovery	Acceptable Range	
Tetrachloro-m-xylene	ND %	30 - 150	H
Decachlorobiphenyl	ND %	30 - 150	H

Note G = Reporting limit(s) raised due to matrix interference.

Note H = Spiked analyte not detected because of required sample dilution.

ND = Not Detected

Reported By: Marcia Reed

Approved By: Leticia Sangalang

The cover letter is an integral part of this report.  
Rev 230787

TCL Organochlorine Pesticides/PCBs  
Method 8080

Client Name: Environmental Chemistry, Inc.  
 Client ID: 980222-2 SB-2  
 LAB ID: 098162-0002-SA  
 Matrix: SOIL  
 Authorized: 20 MAR 98

Sampled: 18 MAR 98  
 Prepared: 26 MAR 98

Received: 20 MAR 98  
 Analyzed: 10 APR 98

Dilution Factor: 10

Parameter	Wet wt. Result	Units	Reporting Limit	Qualifier
alpha-BHC	ND	ug/kg	80	G
beta-BHC	ND	ug/kg	80	
delta-BHC	ND	ug/kg	80	
gamma-BHC (Lindane)	ND	ug/kg	80	
Heptachlor	ND	ug/kg	80	
Aldrin	ND	ug/kg	80	
Heptachlor epoxide	ND	ug/kg	80	
Endosulfan I	ND	ug/kg	80	
Dieldrin	ND	ug/kg	160	
4,4'-DDE	ND	ug/kg	160	
Endrin	ND	ug/kg	160	
Endosulfan II	ND	ug/kg	160	
4,4'-DDD	ND	ug/kg	160	
Endosulfan sulfate	ND	ug/kg	160	
4,4'-DDT	ND	ug/kg	160	
Endrin aldehyde	ND	ug/kg	160	
lethoxychlor	ND	ug/kg	800	
alpha-Chlordane	ND	ug/kg	80	
gamma-Chlordane	ND	ug/kg	80	
Toxaphene	ND	ug/kg	1600	
Aroclor 1016	ND	ug/kg	800	
Aroclor 1221	ND	ug/kg	800	
Aroclor 1232	ND	ug/kg	800	
Aroclor 1242	ND	ug/kg	800	
Aroclor 1248	ND	ug/kg	800	
Aroclor 1254	ND	ug/kg	1600	
Aroclor 1260	ND	ug/kg	1600	

Surrogate	Recovery	Acceptable Range	
Tetrachloro-m-xylene	ND %	30 - 150	H
Decachlorobiphenyl	ND %	30 - 150	H

Note G = Reporting limit(s) raised due to matrix interference.

Note H = Spiked analyte not detected because of required sample dilution.

ND = Not Detected

Reported By: Marcia Reed

Approved By: Leticia Sangalang

The cover letter is an integral part of this report.  
 Rev 230787



Environmental  
Services

TCL Organochlorine Pesticides/PCBs  
Method 8080

Client Name: Environmental Chemistry, Inc.

Client ID: 980222-3 SB-3

LAB ID: 098162-0003-SA

Matrix: SOIL

Authorized: 20 MAR 98

Sampled: 18 MAR 98

Prepared: 26 MAR 98

Received: 20 MAR 98

Analyzed: 10 APR 98

Dilution Factor: 1.0

Parameter	Wet wt. Result	Units	Reporting Limit	Qualifier
alpha-BHC	ND	ug/kg	8.0	
beta-BHC	ND	ug/kg	8.0	
delta-BHC	ND	ug/kg	8.0	
gamma-BHC (Lindane)	ND	ug/kg	8.0	
Heptachlor	ND	ug/kg	8.0	
Aldrin	ND	ug/kg	8.0	
Heptachlor epoxide	ND	ug/kg	8.0	
Endosulfan I	ND	ug/kg	8.0	
Dieldrin	ND	ug/kg	16	
4,4'-DDE	ND	ug/kg	16	
Endrin	ND	ug/kg	16	
Endosulfan II	ND	ug/kg	16	
4,4'-DDD	ND	ug/kg	16	
Endosulfan sulfate	ND	ug/kg	16	
4,4'-DDT	ND	ug/kg	16	
Endrin aldehyde	ND	ug/kg	16	
Ethoxychlor	ND	ug/kg	80	
alpha-Chlordane	ND	ug/kg	8.0	
gamma-Chlordane	ND	ug/kg	8.0	
Toxaphene	ND	ug/kg	160	
Aroclor 1016	ND	ug/kg	80	
Aroclor 1221	ND	ug/kg	80	
Aroclor 1232	ND	ug/kg	80	
Aroclor 1242	ND	ug/kg	80	
Aroclor 1248	ND	ug/kg	80	
Aroclor 1254	ND	ug/kg	160	
Aroclor 1260	ND	ug/kg	160	

Surrogate	Recovery	Acceptable Range
Tetrachloro-m-xylene	72 %	30 - 150
Decachlorobiphenyl	65 %	30 - 150

ND = Not Detected

Reported By: Marcia Reed

Approved By: Leticia Sangalang

The cover letter is an integral part of this report.  
Rev 230787



Environmental  
Services

TCL Organochlorine Pesticides/PCBs  
Method 8080

Client Name: Environmental Chemistry, Inc.

Client ID: 980222-4 SB-4

LAB ID: 098162-0004-SA

Matrix: SOIL

Authorized: 20 MAR 98

Sampled: 18 MAR 98

Prepared: 26 MAR 98

Received: 20 MAR 98

Analyzed: 10 APR 98

Dilution Factor: 1.0

Parameter	Wet wt. Result	Units	Reporting Limit	Qualifier
alpha-BHC	ND	ug/kg	8.0	
beta-BHC	ND	ug/kg	8.0	
delta-BHC	ND	ug/kg	8.0	
gamma-BHC (Lindane)	ND	ug/kg	8.0	
Heptachlor	ND	ug/kg	8.0	
Aldrin	ND	ug/kg	8.0	
Heptachlor epoxide	ND	ug/kg	8.0	
Endosulfan I	ND	ug/kg	8.0	
Dieldrin	ND	ug/kg	16	
4,4'-DDE	ND	ug/kg	16	
Endrin	ND	ug/kg	16	
Endosulfan II	ND	ug/kg	16	
4,4'-DDD	ND	ug/kg	16	
Endosulfan sulfate	ND	ug/kg	16	
4,4'-DDT	ND	ug/kg	16	
Endrin aldehyde	ND	ug/kg	16	
lethoxychlor	ND	ug/kg	80	
alpha-Chlordane	ND	ug/kg	8.0	
gamma-Chlordane	ND	ug/kg	8.0	
Toxaphene	ND	ug/kg	160	
Aroclor 1016	ND	ug/kg	80	
Aroclor 1221	ND	ug/kg	80	
Aroclor 1232	ND	ug/kg	80	
Aroclor 1242	ND	ug/kg	80	
Aroclor 1248	ND	ug/kg	80	
Aroclor 1254	ND	ug/kg	160	
Aroclor 1260	ND	ug/kg	160	

Surrogate	Recovery	Acceptable Range
Tetrachloro-m-xylene	78 %	30 - 150
Decachlorobiphenyl	69 %	30 - 150

ND = Not Detected

Reported By: Marcia Reed

Approved By: Leticia Sangalang

The cover letter is an integral part of this report.  
Rev 230787

TCL Organochlorine Pesticides/PCBs  
Method 8080

Client Name: Environmental Chemistry, Inc.

Client ID: 980222-5 SB-5

LAB ID: 098162-0005-SA

Matrix: SOIL

Authorized: 20 MAR 98

Sampled: 18 MAR 98

Prepared: 26 MAR 98

Received: 20 MAR 98

Analyzed: 10 APR 98

Dilution Factor: 10

Parameter	Wet wt. Result	Units	Reporting Limit	Qualifier
alpha-BHC	ND	ug/kg	80	G
beta-BHC	ND	ug/kg	80	
delta-BHC	ND	ug/kg	80	
gamma-BHC (Lindane)	ND	ug/kg	80	
Heptachlor	ND	ug/kg	80	
Aldrin	ND	ug/kg	80	
Heptachlor epoxide	ND	ug/kg	80	
Endosulfan I	ND	ug/kg	160	
Dieldrin	ND	ug/kg	160	
4,4'-DDE	ND	ug/kg	160	
Endrin	ND	ug/kg	160	
Endosulfan II	ND	ug/kg	160	
4,4'-DDD	ND	ug/kg	160	
Endosulfan sulfate	ND	ug/kg	160	
4,4'-DDT	ND	ug/kg	160	
Endrin aldehyde	ND	ug/kg	160	
Methoxychlor	ND	ug/kg	800	
alpha-Chlordane	ND	ug/kg	80	
gamma-Chlordane	ND	ug/kg	80	
Toxaphene	ND	ug/kg	1600	
Aroclor 1016	ND	ug/kg	800	
Aroclor 1221	ND	ug/kg	800	
Aroclor 1232	ND	ug/kg	800	
Aroclor 1242	ND	ug/kg	800	
Aroclor 1248	ND	ug/kg	800	
Aroclor 1254	ND	ug/kg	1600	
Aroclor 1260	ND	ug/kg	1600	

Surrogate	Recovery	Acceptable Range	
Tetrachloro-m-xylene	ND %	30 - 150	H
Decachlorobiphenyl	ND %	30 - 150	H

Note G = Reporting limit(s) raised due to matrix interference.

Note H = Spiked analyte not detected because of required sample dilution.

ND = Not Detected

Reported By: Marcia Reed

Approved By: Leticia Sangalang

The cover letter is an integral part of this report.  
Rev 230787



Environmental  
Services

TCL Organochlorine Pesticides/PCBs  
Method 8080

Client Name: Environmental Chemistry, Inc.

Client ID: 980222-6 SB-6

LAB ID: 098162-0006-SA

Matrix: SOIL

Authorized: 20 MAR 98

Sampled: 18 MAR 98

Prepared: 26 MAR 98

Received: 20 MAR 98

Analyzed: 10 APR 98

Dilution Factor: 1.0

Parameter	Wet wt. Result	Units	Reporting Limit	Qualifier
alpha-BHC	ND	ug/kg	8.0	
beta-BHC	ND	ug/kg	8.0	
delta-BHC	ND	ug/kg	8.0	
gamma-BHC (Lindane)	ND	ug/kg	8.0	
Heptachlor	ND	ug/kg	8.0	
Aldrin	ND	ug/kg	8.0	
Heptachlor epoxide	ND	ug/kg	8.0	
Endosulfan I	ND	ug/kg	8.0	
Dieldrin	ND	ug/kg	16	
4,4'-DDE	ND	ug/kg	16	
Endrin	ND	ug/kg	16	
Endosulfan II	ND	ug/kg	16	
4,4'-DDD	ND	ug/kg	16	
Endosulfan sulfate	ND	ug/kg	16	
4,4'-DDT	ND	ug/kg	16	
Endrin aldehyde	ND	ug/kg	16	
Ethoxychlor	ND	ug/kg	80	
alpha-Chlordane	ND	ug/kg	8.0	
gamma-Chlordane	ND	ug/kg	8.0	
Toxaphene	ND	ug/kg	160	
Aroclor 1016	ND	ug/kg	80	
Aroclor 1221	ND	ug/kg	80	
Aroclor 1232	ND	ug/kg	80	
Aroclor 1242	ND	ug/kg	80	
Aroclor 1248	ND	ug/kg	80	
Aroclor 1254	ND	ug/kg	160	
Aroclor 1260	ND	ug/kg	160	

Surrogate	Recovery	Acceptable Range
Tetrachloro-m-xylene	76 %	30 - 150
Decachlorobiphenyl	83 %	30 - 150

ND = Not Detected

Reported By: Marcia Reed

Approved By: Leticia Sangalang

The cover letter is an integral part of this report.  
Rev 230787

**TCL Organochlorine Pesticides/PCBs  
Method 8080**
**Client Name:** Environmental Chemistry, Inc.

**Client ID:** 980222-7 SB-7

**AB ID:** 098162-0007-SA

**Matrix:** SOIL

**Authorized:** 20 MAR 98

**Sampled:** 18 MAR 98

**Received:** 20 MAR 98

**Prepared:** 26 MAR 98

**Analyzed:** 10 APR 98

**Dilution Factor:** 1.0

Parameter	Wet wt. Result	Units	Reporting Limit	Qualifier
alpha-BHC	ND	ug/kg	8.0	
beta-BHC	ND	ug/kg	8.0	
delta-BHC	ND	ug/kg	8.0	
gamma-BHC (Lindane)	ND	ug/kg	8.0	
Heptachlor	ND	ug/kg	8.0	
Aldrin	ND	ug/kg	8.0	
Heptachlor epoxide	ND	ug/kg	8.0	
Endosulfan I	ND	ug/kg	8.0	
Dieldrin	ND	ug/kg	16	
4,4'-DDE	ND	ug/kg	16	
Endrin	ND	ug/kg	16	
Endosulfan II	ND	ug/kg	16	
4,4'-DDD	ND	ug/kg	16	
Endosulfan sulfate	ND	ug/kg	16	
4,4'-DDT	ND	ug/kg	16	
Endrin aldehyde	ND	ug/kg	16	
Ethoxychlor	ND	ug/kg	80	
alpha-Chlordane	ND	ug/kg	8.0	
gamma-Chlordane	ND	ug/kg	8.0	
Toxaphene	ND	ug/kg	160	
Aroclor 1016	ND	ug/kg	80	
Aroclor 1221	ND	ug/kg	80	
Aroclor 1232	ND	ug/kg	80	
Aroclor 1242	ND	ug/kg	80	
Aroclor 1248	ND	ug/kg	80	
Aroclor 1254	ND	ug/kg	160	
Aroclor 1260	ND	ug/kg	160	

Surrogate	Recovery	Acceptable Range
Tetrachloro-m-xylene	84 %	30 - 150
Decachlorobiphenyl	50 %	30 - 150

**ND = Not Detected**
**Reported By:** Marcia Reed

**Approved By:** Leticia Sangalang

The cover letter is an integral part of this report.  
Rev 230787

**TCL Organochlorine Pesticides/PCBs  
Method 8080**

Client Name: Environmental Chemistry, Inc.  
 Client ID: 980222-8 SB-X  
 LAB ID: 098162-0008-SA  
 Matrix: SOIL  
 Authorized: 20 MAR 98

Sampled: 18 MAR 98  
 Prepared: 26 MAR 98

Received: 20 MAR 98  
 Analyzed: 10 APR 98

Dilution Factor: 1.0

Parameter	Wet wt. Result	Units	Reporting Limit	Qualifier
alpha-BHC	ND	ug/kg	8.0	
beta-BHC	ND	ug/kg	8.0	
delta-BHC	ND	ug/kg	8.0	
gamma-BHC (Lindane)	ND	ug/kg	8.0	
Heptachlor	ND	ug/kg	8.0	
Aldrin	ND	ug/kg	8.0	
Heptachlor epoxide	ND	ug/kg	8.0	
Endosulfan I	ND	ug/kg	8.0	
Dieldrin	ND	ug/kg	16	
4,4'-DDE	ND	ug/kg	16	
Endrin	ND	ug/kg	16	
Endosulfan II	ND	ug/kg	16	
4,4'-DDD	ND	ug/kg	16	
Endosulfan sulfate	ND	ug/kg	16	
4,4'-DDT	ND	ug/kg	16	
Endrin aldehyde	ND	ug/kg	16	
'ethoxychlor	ND	ug/kg	80	
alpha-Chlordane	ND	ug/kg	8.0	
gamma-Chlordane	ND	ug/kg	8.0	
Toxaphene	ND	ug/kg	160	
Aroclor 1016	ND	ug/kg	80	
Aroclor 1221	ND	ug/kg	80	
Aroclor 1232	ND	ug/kg	80	
Aroclor 1242	ND	ug/kg	80	
Aroclor 1248	ND	ug/kg	80	
Aroclor 1254	ND	ug/kg	160	
Aroclor 1260	ND	ug/kg	160	

Surrogate	Recovery	Acceptable Range
Tetrachloro-m-xylene	92 %	30 - 150
Decachlorobiphenyl	74 %	30 - 150

ND = Not Detected

Reported By: Marcia Reed

Approved By: Leticia Sangalang

The cover letter is an integral part of this report.  
 Rev 230787

QC LOT ASSIGNMENT REPORT - MS QC  
Semivolatile Organics by GC

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
J98162-0001-SA	SOIL	8080-S	-	26 MAR 98-11B	26 MAR 98-11B
J98162-0002-SA	SOIL	8080-S	-	26 MAR 98-11B	26 MAR 98-11B
J98162-0003-SA	SOIL	8080-S	-	26 MAR 98-11B	26 MAR 98-11B
J98162-0004-SA	SOIL	8080-S	-	26 MAR 98-11B	26 MAR 98-11B
J98162-0005-SA	SOIL	8080-S	-	26 MAR 98-11B	26 MAR 98-11B
J98162-0006-SA	SOIL	8080-S	-	26 MAR 98-11B	26 MAR 98-11B
J98162-0007-SA	SOIL	8080-S	-	26 MAR 98-11B	26 MAR 98-11B
J98162-0008-SA	SOIL	8080-S	-	26 MAR 98-11B	26 MAR 98-11B

METHOD BLANK REPORT  
 Semivolatile Organics by GC  
 Project: 098162

Test: 8080-TCL-S  
 Method: 8080  
 Matrix: SOIL  
 QC Lot: 26 MAR 98-11B  
 Analyzed: 10 APR 98

TCL Organochlorine Pesticides/PCBs

QC Run: 26 MAR 98-11B  
 Time: 00:41

Analyte	Result	Units	Reporting Limit	Qualifier
alpha-BHC	ND	ug/kg	8.0	
beta-BHC	ND	ug/kg	8.0	
delta-BHC	ND	ug/kg	8.0	
gamma-BHC (Lindane)	ND	ug/kg	8.0	
Heptachlor	ND	ug/kg	8.0	
Aldrin	ND	ug/kg	8.0	
Heptachlor epoxide	ND	ug/kg	8.0	
Endosulfan I	ND	ug/kg	8.0	
Dieldrin	ND	ug/kg	16	
4,4'-DDE	ND	ug/kg	16	
Endrin	ND	ug/kg	16	
Endosulfan II	ND	ug/kg	16	
4,4'-DDD	ND	ug/kg	16	
Endosulfan sulfate	ND	ug/kg	16	
4,4'-DDT	ND	ug/kg	16	
Endrin aldehyde	ND	ug/kg	16	
Methoxychlor	ND	ug/kg	80	
Alpha-Chlordane	ND	ug/kg	8.0	
gamma-Chlordane	ND	ug/kg	8.0	
Toxaphene	ND	ug/kg	160	
Aroclor 1016	ND	ug/kg	80	
Aroclor 1221	ND	ug/kg	80	
Aroclor 1232	ND	ug/kg	80	
Aroclor 1242	ND	ug/kg	80	
Aroclor 1248	ND	ug/kg	80	
Aroclor 1254	ND	ug/kg	160	
Aroclor 1260	ND	ug/kg	160	

Surrogate	% Recovery	Acceptable Range
Tetrachloro-m-xylene	72	30 -150
Decachlorobiphenyl	107	30 -150

ND = Not Detected

LABORATORY CONTROL SAMPLE REPORT  
Semivolatile Organics by GC  
Project: 098162

Category: 8080-S Pesticides

Testcode: 8080-TCL-S

Matrix: SQIL

QC Lot: 26 MAR 98-11B

Analyzed Date: 10 APR 98 Time: 01:22

Method: 8080

Concentration Units: ug/kg

QC Run: 26 MAR 98-11B

Analyte	-----Concentration-----		Accuracy(%)	
	Spiked	Measured	LCS	Limits
gamma-BHC (Lindane)	16.7	11.5	69	45-103
Heptachlor	16.7	13.2	79	50-111
Aldrin	16.7	13.5	81	56-102
Dieldrin	33.3	32.9	99	66-129
Endrin	33.3	35.5	107	48-157
4,4'-DDT	33.3	30.8	92	55-127
Surrogate	-----Concentration-----		Accuracy(%)	
	Spiked	Measured	LCS	Limits
Tetrachloro-m-xylene	13	9.7	73	30-150
Decachlorobiphenyl	13	14	107	30-150

Calculations are performed before rounding to avoid round-off errors in calculated results.

EX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT  
Semivolatile Organics by GC  
Project: 098162

Category: 8080-S Pesticides  
Test: 8080-TCL-S  
Matrix: SOIL  
Sample: 098162-0001  
IS Run: 26 MAR 98-11B  
Units: ug/kg Units Qualifier: Wet wt.

Method: 8080

-----Concentration-----

Analyte	Sample Result	MS Result	MSD Result	Amount Spiked MS	MSD	%Recovery MS	MSD	%RPD	Acceptance Limit Recov.	RPD
gamma-BHC (Lindane)	ND	ND	H ND	H 16.7	16.7	NC	NC	NC	45-103	16
heptachlor	ND	ND	H ND	H 16.7	16.7	NC	NC	NC	50-111	16
Heptachlor	ND	ND	H ND	H 16.7	16.7	NC	NC	NC	56-102	15
Heptachlor	ND	ND	H ND	H 33.3	33.3	NC	NC	NC	66-129	15
Heptachlor	ND	ND	H ND	H 33.3	33.3	NC	NC	NC	48-157	16
Heptachlor	ND	ND	H ND	H 33.3	33.3	NC	NC	NC	55-127	16

Surrogates	Sample %Recovery	%Recovery		Acceptance Limit Recovery	
		MS	MSD	MS	MSD
Tetrachloro-m-xylene	ND H			ND H	ND H
Diechlorobiphenyl	ND H			ND H	ND H

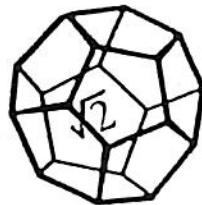
H = Spiked analyte not detected because of required sample dilution.

NC = Not Calculated, calculation not applicable.

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Subcontracted Analysis  
Organophosphorus Pesticides -  
Method 8141



NORTH COAST  
LABORATORIES LTD.

Date: 05/21/98

REPORT

Page 1 of 10

REPORT Quanterra  
TO 880 Riverside Parkway  
West Sacramento, CA 95605

WORK ORDER 98-04-706

INVOICE # 60066395

Attn: Kendra Desantolo

WORK ID: 098162/Env Chem

Laboratory Supervisor(s)

REPORT CERTIFIED BY

QA Officer

Jesse G. Chaney, Jr.  
Laboratory Director

SAMPLE IDENTIFICATION

Fraction Sample Description

Comments:

01 098162-0001 SA

The positive diazinon results for samples 04A and 05A were confirmed by second column. Suggest GCMS.

02 098162-0002 SA

03 098162-0003 SA

04 098162-0004 SA

05 098162-0005 SA

06 098162-0006 SA

07 098162-0007 SA

08 098162-0008 SA

09 098162-0002 MS

Previously reported on 05/21/98.

10 098162-0002 SD

Notes and Definitions:

NQ = Not Quantifiable

11 26 MAR 98-A

ND = None Detected

12 26 MAR 98 MB

13 Continuing Calib

## REPORT

Date: 05/21/98  
 Work Order: 98-04-706  
 Invoice #: 60066395

SAMPLE ID: 098162-0001 SA SB-1 FRAC.: 01A COLLECTED: 03/18/98 RECEIVED: 04/30/98

PARAMETER	RESULT	LIMIT	UNITS	DIL.FACTOR	EXTRACTED	RUN	METHOD
EPA 8141/Scil-Quanterra							EPA 8141A
Azinphos - methyl	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Bolstar	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Chlorpyrifos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Coumaphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Demeton - O and - S	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Diazinon	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Dichlorvos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Disulfoton	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Ethoprophos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Fenthion	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Merphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Mevinphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Naled	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Methyl Parathion	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Phorate	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Ronnel	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Tetrachlorvinphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Tokuthion	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Trichloronate	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Surrogate:						05/12/98	EPA 8141A
Ethion	107	N/A	% Rec	1.0		05/12/98	EPA 8141A

SAMPLE ID: 098162-0002 SA SB-2 FRAC.: 02A COLLECTED: 03/18/98 RECEIVED: 04/30/98

PARAMETER	RESULT	LIMIT	UNITS	DIL.FACTOR	EXTRACTED	RUN	METHOD
EPA 8141/Scil-Quanterra							EPA 8141A
Azinphos - methyl	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Bolstar	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Chlorpyrifos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Coumaphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Demeton - O and - S	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Diazinon	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Dichlorvos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Disulfoton	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Ethoprophos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Fenthion	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Merphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A

Date: 05/21/98  
Work Order: 98-04-706  
Invoice #: 60066395

## REPORT

Page 3 of 10

PARAMETER	RESULT	LIMIT	UNITS	DIL.FACTOR	EXTRACTED	RUN	METHOD
Mevinphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Naled	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Methyl Parathion	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Phorate	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Ronnel	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Tetrachlorvinphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Tokuthion	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Trichloronate	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Surrogate:						05/12/98	EPA 8141A
Ethion	92.8	N/A	% Rec	1.0		05/12/98	EPA 8141A

SAMPLE ID: 098162-0003 SA SB-3 FRAC.: 03A COLLECTED: 03/18/98 RECEIVED: 04/30/98

PARAMETER	RESULT	LIMIT	UNITS	DIL.FACTOR	EXTRACTED	RUN	METHOD
EPA 8141/Soil-Quanterra							EPA 8141A
Azinphos - methyl	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Bolstar	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Chlorpyrifos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Coumaphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Demeton - O and - S	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Diazinon	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Dichlorvos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Disulfoton	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Ethoprophos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Fenthion	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Merphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Mevinphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Naled	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Methyl Parathion	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Phorate	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Ronnel	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Tetrachlorvinphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Tokuthion	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Trichloronate	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Surrogate:						05/12/98	EPA 8141A
Ethion	97.6	N/A	% Rec	1.0		05/12/98	EPA 8141A

Date: 05/21/98

REPORT

Page 4 of 10

Work Order: 98-04-706

Invoice #: 60066395

SAMPLE ID: 098162-0004 SA SB-4 FRAC.: 04A COLLECTED: 03/18/98 RECEIVED: 04/30/98

PARAMETER	RESULT	LIMIT	UNITS	DIL.FACTOR	EXTRACTED	RUN	METHOD
EPA 8141/Soil-Quanterra							EPA 8141A
Azinphos - methyl	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Bolstar	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Chlorpyrifos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Coumaphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Demeton - O and - S	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Diazinon	53	50	ug/kg	1.0		05/12/98	EPA 8141A
Dichlorvos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Disulfoton	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Ethoprophos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Fenthion	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Merphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Mevinphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Naled	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Methyl Parathion	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Phorate	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Ronnel	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Tetrachlorvinphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Tokuthion	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Trichloronate	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Surrogate:						05/12/98	EPA 8141A
Ethion	97.5	N/A	% Rec	1.0		05/12/98	EPA 8141A

SAMPLE ID: 098162-0005 SA SB-5 FRAC.: 05A COLLECTED: 03/18/98 RECEIVED: 04/30/98

PARAMETER	RESULT	LIMIT	UNITS	DIL.FACTOR	EXTRACTED	RUN	METHOD
EPA 8141/Soil-Quanterra							EPA 8141A
Azinphos - methyl	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Bolstar	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Chlorpyrifos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Coumaphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Demeton - O and - S	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Diazinon	89	50	ug/kg	1.0		05/12/98	EPA 8141A
Dichlorvos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Disulfoton	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Ethoprophos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Fenthion	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Merphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A

Date: 05/21/98  
Work Order: 98-04-706  
Invoice #: 60066395

## REPORT

Page 5 of 12

PARAMETER	RESULT	LIMIT	UNITS	DIL.FACTOR	EXTRACTED	RUN	METHOD
Mevinphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Naled	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Methyl Parathion	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Phorate	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Ronnel	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Tetrachlorvinphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Tokuthion	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Trichloronate	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Surrogate:							
Ethion	119	N/A	% Rec	1.0		05/12/98	EPA 8141A

SAMPLE ID: 098162-0006 SA SB-6 FRAC.: 06A COLLECTED: 03/18/98 RECEIVED: 04/30/98

PARAMETER	RESULT	LIMIT	UNITS	DIL.FACTOR	EXTRACTED	RUN	METHOD
EPA 8141/Soil-Quanterra							EPA 8141A
Azinphos - methyl	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Bolstar	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Chlorpyrifos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Coumaphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Demeton - O and - S	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Diazinon	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Dichlorvos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Disulfoton	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Ethoprophos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Fenthion	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Merphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Mevinphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Naled	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Methyl Parathion	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Phorate	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Ronnel	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Tetrachlorvinphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Tokuthion	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Trichloronate	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Surrogate:							
Ethion	133	N/A	% Rec	1.0		05/12/98	EPA 8141A

Date: 05/21/98

REPORT

Page 6 of 10

Work Order: 98-04-706

Invoice #: 60066395

SAMPLE ID: 098162-0007 SA SB-7 FRAC.: 07A COLLECTED: 03/18/98 RECEIVED: 04/30/98

PARAMETER	RESULT	LIMIT	UNITS	DIL.FACTOR	EXTRACTED	RUN	METHOD
EPA 8141/Soil-Quanterra							EPA 8141A
Azinphos - methyl	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Bolstar	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Chlorpyrifos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Coumaphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Demeton - O and - S	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Diazinon	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Dichlorvos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Disulfoton	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Ethoprophos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Fenthion	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Merphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Mevinphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Naled	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Methyl Parathion	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Phorate	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Ronnel	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Tetrachlorvinphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Tokuthion	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Trichloronate	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Surrogate:						05/12/98	EPA 8141A
Ethion	11.6	N/A	% Rec	1.0		05/12/98	EPA 8141A

SAMPLE ID: 098162-0008 SA SB-X FRAC.: 08A COLLECTED: 03/18/98 RECEIVED: 04/30/98

PARAMETER	RESULT	LIMIT	UNITS	DIL.FACTOR	EXTRACTED	RUN	METHOD
EPA 8141/Soil-Quanterra							EPA 8141A
Azinphos - methyl	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Bolstar	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Chlorpyrifos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Coumaphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Demeton - O and - S	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Diazinon	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Dichlorvos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Disulfoton	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Ethoprophos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Fenthion	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Merphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A

NORTH COAST LABORATORIES

5680 West End Road • Arcata, California 95521 • 707-822-4649 • FAX 707-822-6831

Date: 05/21/98  
Work Order: 98-04-706  
Invoice #: 60066395

## REPORT

Page 7 of 10

PARAMETER	RESULT	LIMIT	UNITS	DIL.FACTOR	EXTRACTED	RUN	METHOD
Mevinphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Naled	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Methyl Parathion	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Phorate	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Ronnel	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Tetrachlorvinphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Tokuthion	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Trichloronate	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Surrogate:						05/12/98	EPA 8141A
Ethion	116	N/A	% Rec	1.0		05/12/98	EPA 8141A

SAMPLE ID: 098162-0002 MS      FRAC.: 09A      COLLECTED: 03/18/98 RECEIVED: 04/30/98

PARAMETER	RESULT	LIMIT	UNITS	DIL.FACTOR	EXTRACTED	RUN	METHOD
EPA 8141/Soil-Quanterra							EPA 8141A
Azinphos - methyl	328	50	ug/kg	1.0		05/12/98	EPA 8141A
Bolstar	213	50	ug/kg	1.0		05/12/98	EPA 8141A
Chlorpyrifos	196	50	ug/kg	1.0		05/12/98	EPA 8141A
Coumaphos	247	50	ug/kg	1.0		05/12/98	EPA 8141A
Demeton - O and - S	108	50	ug/kg	1.0		05/12/98	EPA 8141A
Diazinon	190	50	ug/kg	1.0		05/12/98	EPA 8141A
Dichlorvos	304	50	ug/kg	1.0		05/12/98	EPA 8141A
Disulfoton	214	50	ug/kg	1.0		05/12/98	EPA 8141A
Ethoprophos	215	50	ug/kg	1.0		05/12/98	EPA 8141A
Fenthion	207	50	ug/kg	1.0		05/12/98	EPA 8141A
Merphos	145	50	ug/kg	1.0		05/12/98	EPA 8141A
Mevinphos	148	50	ug/kg	1.0		05/12/98	EPA 8141A
Naled	30.5	50	ug/kg	1.0		05/12/98	EPA 8141A
Methyl Parathion	238	50	ug/kg	1.0		05/12/98	EPA 8141A
Phorate	141	50	ug/kg	1.0		05/12/98	EPA 8141A
Ronnel	198	50	ug/kg	1.0		05/12/98	EPA 8141A
Tetrachlorvinphos	238	50	ug/kg	1.0		05/12/98	EPA 8141A
Tokuthion	181	50	ug/kg	1.0		05/12/98	EPA 8141A
Trichloronate	179	50	ug/kg	1.0		05/12/98	EPA 8141A
Surrogate:						05/12/98	EPA 8141A
Ethion	124	N/A	% Rec	1.0		05/12/98	EPA 8141A

Date: 05/21/98  
Work Order: 98-04-706  
Invoice #: 60066395

## REPORT

Page 8 of 10

SAMPLE ID: 098162-0002 SD FRAC.: 10A COLLECTED: 03/18/98 RECEIVED: 04/30/98

PARAMETER	RESULT	LIMIT	UNITS	DIL.FACTOR	EXTRACTED	RUN	METHOD
EPA 8141/Soil-Quanterra							EPA 8141A
Azinphos - methyl	321	50	ug/kg	1.0		05/12/98	EPA 8141A
Bolstar	232	50	ug/kg	1.0		05/12/98	EPA 8141A
Chlorpyrifos	221	50	ug/kg	1.0		05/12/98	EPA 8141A
Coumaphos	286	50	ug/kg	1.0		05/12/98	EPA 8141A
Demeton - O and - S	127	50	ug/kg	1.0		05/12/98	EPA 8141A
Diazinon	226	50	ug/kg	1.0		05/12/98	EPA 8141A
Dichlorvos	293	50	ug/kg	1.0		05/12/98	EPA 8141A
Disulfoton	245	50	ug/kg	1.0		05/12/98	EPA 8141A
Ethoprophos	233	50	ug/kg	1.0		05/12/98	EPA 8141A
Fenthion	232	50	ug/kg	1.0		05/12/98	EPA 8141A
Merphos	160	50	ug/kg	1.0		05/12/98	EPA 8141A
Mevinphos	128	50	ug/kg	1.0		05/12/98	EPA 8141A
Naled	38.4	50	ug/kg	1.0		05/12/98	EPA 8141A
Methyl Parathion	257	50	ug/kg	1.0		05/12/98	EPA 8141A
Phorate	188	50	ug/kg	1.0		05/12/98	EPA 8141A
Ronnel	216	50	ug/kg	1.0		05/12/98	EPA 8141A
Tetrachlorvinphos	264	50	ug/kg	1.0		05/12/98	EPA 8141A
Tokuthion	202	50	ug/kg	1.0		05/12/98	EPA 8141A
Trichloronate	199	50	ug/kg	1.0		05/12/98	EPA 8141A
Surrogate:							
Ethion	136	N/A	% Rec	1.0		05/12/98	EPA 8141A

SAMPLE ID: 26 MAR 98-A FRAC.: 11A COLLECTED: 03/18/98 RECEIVED: 04/30/98

PARAMETER	RESULT	LIMIT	UNITS	DIL.FACTOR	EXTRACTED	RUN	METHOD
EPA 8141/Soil-Quanterra							EPA 8141A
Azinphos - methyl	215	50	ug/kg	1.0		05/12/98	EPA 8141A
Bolstar	194	50	ug/kg	1.0		05/12/98	EPA 8141A
Chlorpyrifos	185	50	ug/kg	1.0		05/12/98	EPA 8141A
Coumaphos	206	50	ug/kg	1.0		05/12/98	EPA 8141A
Demeton - O and - S	71.4	50	ug/kg	1.0		05/12/98	EPA 8141A
Diazinon	187	50	ug/kg	1.0		05/12/98	EPA 8141A
Dichlorvos	191	50	ug/kg	1.0		05/12/98	EPA 8141A
Disulfoton	189	50	ug/kg	1.0		05/12/98	EPA 8141A
Ethoprophos	199	50	ug/kg	1.0		05/12/98	EPA 8141A
Fenthion	195	50	ug/kg	1.0		05/12/98	EPA 8141A
Merphos	156	50	ug/kg	1.0		05/12/98	EPA 8141A

Date: 05/21/98

Work Order: 98-04-706

Invoice #: 60066395

REPORT

Page 9 of 10

PARAMETER	RESULT	LIMIT	UNITS	DIL.FACTOR	EXTRACTED	RUN	METHOD
Mevinphos	283	50	ug/kg	1.0		05/12/98	EPA 8141A
Naled	95.1	50	ug/kg	1.0		05/12/98	EPA 8141A
Methyl Parathion	193	50	ug/kg	1.0		05/12/98	EPA 8141A
Phorate	173	50	ug/kg	1.0		05/12/98	EPA 8141A
Ronnel	183	50	ug/kg	1.0		05/12/98	EPA 8141A
Tetrachlorvinphos	214	50	ug/kg	1.0		05/12/98	EPA 8141A
Tokuthion	176	50	ug/kg	1.0		05/12/98	EPA 8141A
Trichloronate	178	50	ug/kg	1.0		05/12/98	EPA 8141A
Surrogate:						05/12/98	EPA 8141A
Ethion	115	N/A	% Rec	1.0		05/12/98	EPA 8141A

SAMPLE ID: 26 MAR 98 MB

FRAC.: 12A COLLECTED: 03/18/98 RECEIVED: 04/30/98

PARAMETER	RESULT	LIMIT	UNITS	DIL.FACTOR	EXTRACTED	RUN	METHOD
EPA 8141/Soil-Quanterra							EPA 8141A
Azinphos - methyl	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Bolstar	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Chlorpyrifos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Coumaphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Demeton - O and - S	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Diazinon	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Dichlorvos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Disulfoton	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Ethoprophos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Fenthion	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Merphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Mevinphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Naled	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Methyl Parathion	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Phorate	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Ronnel	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Tetrachlorvinphos	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Tokuthion	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Trichloronate	ND	50	ug/kg	1.0		05/12/98	EPA 8141A
Surrogate:						05/12/98	EPA 8141A
Ethion	96.5	N/A	% Rec	1.0		05/12/98	EPA 8141A

Date: 05/21/98  
Work Order: 98-04-706  
Invoice #: 60066395

## REPORT

Page 10 of 10

SAMPLE ID: Continuing Calib FRAC.: 13A COLLECTED: N/A RECEIVED: 04/30/98

PARAMETER	RESULT	LIMIT	UNITS	DIL.FACTOR	EXTRACTED	RUN	METHOD
EPA 8141/Soil-Quanterra							EPA 8141A
Azinphos - methyl	89.7	50	ug/kg	1.0		05/13/98	EPA 8141A
Bolstar	65.4	50	ug/kg	1.0		05/13/98	EPA 8141A
Chlorpyrifos	71.7	50	ug/kg	1.0		05/13/98	EPA 8141A
Coumaphos	75.0	50	ug/kg	1.0		05/13/98	EPA 8141A
Demeton - O and - S	88.6	50	ug/kg	1.0		05/13/98	EPA 8141A
Diazinon	68.0	50	ug/kg	1.0		05/13/98	EPA 8141A
Dichlorvos	75.2	50	ug/kg	1.0		05/13/98	EPA 8141A
Disulfoton	62.5	50	ug/kg	1.0		05/13/98	EPA 8141A
Ethoprophos	70.6	50	ug/kg	1.0		05/13/98	EPA 8141A
Fenthion	68.8	50	ug/kg	1.0		05/13/98	EPA 8141A
Merphos	64.7	50	ug/kg	1.0		05/13/98	EPA 8141A
Mevinphos	52.9	50	ug/kg	1.0		05/13/98	EPA 8141A
Naled	71.6	50	ug/kg	1.0		05/13/98	EPA 8141A
Methyl Parathion	72.4	50	ug/kg	1.0		05/13/98	EPA 8141A
Phorate	69.1	50	ug/kg	1.0		05/13/98	EPA 8141A
Ronnel	69.9	50	ug/kg	1.0		05/13/98	EPA 8141A
Tetrachlorvinphos	66.9	50	ug/kg	1.0		05/13/98	EPA 8141A
Tokuthion	67.9	50	ug/kg	1.0		05/13/98	EPA 8141A
Trichloronate	69.8	50	ug/kg	1.0		05/13/98	EPA 8141A
Surrogate:							
Ethion	108	N/A	% Rec	1.0		05/13/98	EPA 8141A



Environmental  
Services

QC LOT ASSIGNMENT REPORT - MS QC  
Semivolatile Organics by GC

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
098162-0001-SA	SOIL	8140-SW-S	-	26 MAR 98-11A	26 MAR 98-11A
098162-0002-SA	SOIL	8140-SW-S	-	26 MAR 98-11A	26 MAR 98-11A
098162-0003-SA	SOIL	8140-SW-S	-	26 MAR 98-11A	26 MAR 98-11A
098162-0004-SA	SOIL	8140-SW-S	-	26 MAR 98-11A	26 MAR 98-11A
098162-0005-SA	SOIL	8140-SW-S	-	26 MAR 98-11A	26 MAR 98-11A
098162-0006-SA	SOIL	8140-SW-S	-	26 MAR 98-11A	26 MAR 98-11A
098162-0007-SA	SOIL	8140-SW-S	-	26 MAR 98-11A	26 MAR 98-11A
098162-0008-SA	SOIL	8140-SW-S	-	26 MAR 98-11A	26 MAR 98-11A

METHOD BLANK REPORT  
Semivolatile Organics by GC  
Project: 098162

Test: 8140-SW-S                          Organophosphorus Pesticides  
 Method: 8140  
 Matrix: SOIL  
 QC Lot: 26 MAR 98-11A                    QC Run: 26 MAR 98-11A  
 Analyzed:                                    Time:

Analyte	Result	Units	Reporting Limit	Qualifier
Azinphos-methyl (Guthion)	ND	ug/kg	50	
Bolstar	ND	ug/kg	50	
Dursban (Chlorpyrifos)	ND	ug/kg	50	
Coumaphos	ND	ug/kg	50	
Demeton O&S	ND	ug/kg	50	
Diazinon	ND	ug/kg	50	
Dichlorvos	ND	ug/kg	50	
Disyston (Disulfoton)	ND	ug/kg	50	
Ethoprop	ND	ug/kg	50	
Baytex (Fenthion)	ND	ug/kg	50	
Merphos	ND	ug/kg	50	
Phosdrin (Mevinphos)	ND	ug/kg	50	
Naled	ND	ug/kg	50	
Methyl parathion	ND	ug/kg	50	
Phorate (Thimet)	ND	ug/kg	50	
Tetral	ND	ug/kg	50	
Tetrachlorvinphos	ND	ug/kg	50	
Tokuthion (Prothiophos)	ND	ug/kg	50	
Trichloronate	ND	ug/kg	50	

Surrogate	% Recovery	Acceptable Range
Ethion	136	56 -122

ND = Not Detected

LABORATORY CONTROL SAMPLE REPORT  
Semivolatile Organics by GC  
Project: 098162

Category: 8140-SW-S Organophosphate Pesticides

Testcode: 8140-SW-S

Method: 8140

Matrix: SOIL

Concentration Units: ug/kg

QC Lot: 26 MAR 98-11A

QC Run: 26 MAR 98-11A

Analyzed Date: 13 MAY 98 Time: 00:00

Analyte	-----Concentration-----		Accuracy(%)	
	Spiked	Measured	LCS	Limits
Phosdrin (Mevinphos)	167	283	169	52-144 #
Phorate (Thimet)	167	173	104	59-125
Diazinon	167	187	112	44-147
Dursban (Chlorpyrifos)	167	185	111	68-132
Tetrachlorvinphos	167	214	128	74-127 #

Surrogate	-----Concentration-----		Accuracy(%)	
	Spiked	Measured	LCS	Limits
Ethion	167	192	115	86-124

Calculations are performed before rounding to avoid round-off errors in calculated results.

IX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT  
volatile Organics by GC  
ect: 098162 (cont.)

gory: 8140-SW-S Organophosphate Pesticides  
: 8140-SW-S  
ix : SOIL  
le : 098162-0002  
un : 26 MAR 98-11A  
s : ug/kg      Units Qualifier: Wet wt.

Method: 8140

## -----Concentration-----

alyte	Sample Result	MS Result	MSD Result	Amount Spiked		%Recovery		%RPD	Acceptance Limit	
				MS	MSD	MS	MSD		Recov.	RPD
drin (Mevinphos)	ND	148	128	167	167	89	77	14	52-144	0
ate (Thimet)	ND	141	188	167	167	84	113	29	59-125	0
inon	ND	190	226	167	167	114	135	17	44-147	0
ban										
lorpyrifos)	ND	196	221	167	167	117	132	12	68-132	0
achlorvinphos	ND	238	264	167	167	143	158	10	74-127	0
rogates	Sample %Recovery					%Recovery			Acceptance Limit	
			92.8			MS	MSD		Recovery	
						124		136		56-122

Not Detected

culations are performed before rounding to avoid round-off errors in calculated results.

Robert J. Huston, Chairman  
R. B. "Ralph" Marquez, Commissioner  
John M. Baker, Commissioner  
Jeffrey A. Saitas, Executive Director



HZ/LC/TE

TXD 000719518

## TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

*Protecting Texas by Reducing and Preventing Pollution*

July 18, 2000

Mr. W.R. Reeves  
Vice President Regulatory Affairs  
Disposal Systems, Inc.  
P.O. Box 1914  
Deer Park, Texas 77536

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Re: Approval of Closure Phase II RCRA Facility Investigation Report - Risk Reduction Standard No. 2  
Solid Waste Management Units (SWMUs) No. 4 and No. 7  
Disposal Systems, Inc.  
2525 Battleground Road, Deer Park, Texas  
TNRCC SWR No. 32299  
TNRCC Hazardous Waste Permit No. HW- 50058  
EPA ID No. TXD000719518

Dear Mr. Reeves:

The Texas Natural Resource Conservation Commission (TNRCC) received your Phase II RCRA Facility Investigation (RFI) Report dated July 28, 1998, and your letter dated November 5, 2000 in response to our Notice of Deficiencies, indicating that closure activities have been completed in accordance with the TNRCC Risk Reduction Standard (RRS) No. 2, pursuant to Title 30 Texas Administrative Code (TAC) Chapter 335 Subchapters A and S.

In order to attain RRS No. 2, all industrial solid waste and municipal hazardous waste and waste residues must be removed or decontaminated to health based standards and criteria. Contaminants allowed to remain in place in media of concern (i.e., soil, ground water, surface water, air) must not exceed the health based clean up levels as specified in 30 TAC §335.556.

The TNRCC has completed a review of the Phase II RFI Report. The Phase II RFI Report contains documentation indicating that cleanup at SWMUs No. 4 and No. 7 has attained RRS No. 2 such that no post-closure care or engineering control measures are required. Based upon the information contained in the Phase II RFI Report and other information available to staff, it appears that the cleanup has achieved RRS No. 2. A proposed document must be submitted to fulfill the requirements

Mr. W.R. Reeves  
Page 2  
July 18, 2000

of 30 TAC §335.560(b) relating to deed certification within 30 days of receipt of this letter. As specified in §335.560, Disposal Systems, Inc. must submit proof of deed certification to the TNRCC within ninety (90) days from the date of this letter. Upon acceptance of the proof of deed certification, the TNRCC will transmit a final letter releasing Disposal Systems, Inc. from post-closure care responsibilities for SWMUs No. 4 and No. 7.

Please be aware that it is the continuing obligation of persons associated with a site to assure that municipal hazardous waste and industrial solid waste are managed in a manner which does not cause the discharge or imminent threat of discharge of waste into or adjacent to waters in the state, a nuisance, or the endangerment of the public health and welfare as required by 30 TAC §335.4. If the actual closure fails to comply with these requirements, the burden remains upon Disposal Systems, Inc. to take any necessary and authorized action to correct such conditions. A TNRCC field inspector may review your Phase II RFI Report and conduct a closure inspection of the site.

Questions concerning this letter should be directed to me at (512) 239-6210. When responding by mail, please submit an original and one copy of all correspondence and reports to the Corrective Action Section at Mail Code MC-127 with an additional copy submitted to the TNRCC Region 12 Office in Houston. The TNRCC Solid Waste Registration Number and SWMUs No. 4 and 7 should be referenced in all submittals.

Sincerely,



Kelly K. Carpenter, Project Manager  
Team I, Corrective Action Section  
Remediation Division  
Texas Natural Resource Conservation Commission

KC/kc  
i:\everyone\Kelly\Closures\32299.RFI

cc: Ms. Marsha Hill, Waste Program Manager, TNRCC Region 12 Office, Houston

#S

HZ/RC/TE

TXD000719578

STATE OF TEXAS  
HARRIS COUNTY

INDUSTRIAL SOLID WASTE  
CERTIFICATION OF REMEDIATION

KNOW ALL MEN BY THESE PRESENTS THAT: Pursuant to the Rules of the Texas Natural Resource Conservation Commission pertaining to Industrial Solid Waste Management, this document is hereby filed in the Deed Records of Harris County, Texas in compliance with the recordation requirements of said rules:

I

Disposal Systems, Inc. has performed an investigation of Solid Waste Management Units No. 4 and No. 7 on the land described herein. A list of the constituents of concern, including known concentrations, that were reported to be present in soil samples collected from the facility is attached hereto and is made part of this filing. Some constituents of concern were reported to be present in some soil samples at concentrations that are slightly above the laboratory method detection limit and are believed to be laboratory artifacts or anthropogenic compounds. Other constituents of concern that were reported to be present at higher concentrations were all less than the levels required to meet the closure goal for Risk Reduction Standard No. 2 found in 30 Texas Administrative Code, §335.555. Further information concerning this matter may be found by an examination of company records or in the Industrial Solid Waste Registration No. 30285 files, which are available for inspection upon request at the central office of the Texas Natural Resource Conservation Commission in Austin.

The Texas Natural Resource Conservation Commission derives its authority to review the remediation of this tract of land from the Texas Solid Waste Disposal Act, §361.002, Texas Health and Safety Code, Chapter 361, which enables the Texas Natural Resource Conservation Commission to promulgate closure and remediation standards to safeguard the health, welfare and physical property of the people of the State and to protect the environment by controlling the management of solid waste. In addition, pursuant to the Texas Water Code, §5.012 and §5.013, Texas Water Code, Annotated, Chapter 5, the Texas Natural Resource Conservation Commission is given primary responsibility for implementing the laws of the State of Texas relating to water and shall adopt any rules necessary to carry out its powers and duties under the Texas Water Code. In accordance with this authority, the Texas Natural Resource Conservation Commission requires certain persons to provide certification and/or recordation in the real property records to notify the public of the conditions of the land and/or the occurrence of remediation. This deed certification is not a representation or warranty by the Texas Natural Resource Conservation Commission of the suitability of this land for any purpose, nor does it constitute any guarantee by the Texas Natural Resource Conservation Commission that the remediation standards specified in this certification have been met by Disposal Systems, Inc.

II

Being a 2.5209 acre tract (109,811 sq. ft.), comprising a portion of that certain 20.0228 acre tract in the George Ross Survey, A-646, Harris County, Texas as conveyed by Truckholding, Inc., to DSI Properties, Inc., and recorded under Harris County Clerk's File No. G970945. The 2.5209 acre tract being more particularly described as follows:

COMMENCING at a 5/8-inch iron rod with aluminum cap found for the Southeast corner of the 20.0228 acre tract and being coincident with the West right-of-way line of State Highway 134; said commencing point bears North 0 degrees 31 minutes 21 seconds West a distance of 49.74 feet from a 5/8 inch iron rod found 0.06 feet East of the intersection of the West right-of-way line of State Highway 134 and the North right-of-way line of Tidal Road (based on a width of 60.00 feet).

THENCE, North 0 degrees 31 minutes 21 seconds West; coincident with the East boundary line of the 20.0228 acre tract and the West right-of-way line of State Highway 134; a distance of 1246.00 feet to a 5/8 inch iron rod set for the Northeast corner of the 20.0228 acre tract and from which a chain link fence corner was found 1.1 feet South and 2.4 feet West.

THENCE, South 89 degrees 40 minutes 47 seconds West; coincident with the North boundary line of the 20.0228 acre tract; passing at 415.00 feet a 5/8 inch iron rod set (January, 1985) on line; for a total distance of 439.45 feet to a 5/8 inch iron rod set for the Northeast corner of the 2.5209 acre tract and the POINT OF BEGINNING.

THENCE, South 0 degrees 31 minutes 21 seconds East; a distance of 153.15 feet to a 5/8 inch iron rod set for corner.

THENCE, South 89 degrees 40 minutes 47 seconds West; a distance of 61.00 feet to a 5/8 inch iron rod set for corner.

THENCE, South 0 degrees 31 minutes 21 seconds East; a distance of 166.63 feet to a 5/8 inch iron rod set for corner.

THENCE, South 89 degrees 40 minutes 47 seconds West; a distance of 44.22 feet to a 5/8 inch iron rod set for corner.

THENCE, South 0 degrees 31 minutes 21 seconds East; a distance of 236.00 feet to a 5/8 inch iron rod set for corner.

THENCE, South 89 degrees 40 minutes 47 seconds West; passing at 30.00 feet a 5/8 inch iron rod set on line (May, 1985); for a total distance of 155.33 feet to a 5/8 inch iron rod set (May, 1985) for the Southwest corner of this 2.5209 acre tract.

THENCE, North 0 degrees 31 minutes 21 seconds West; coincident with the West boundary line of the 20.0228 acre tract; a distance of 555.78 feet to a 5/8 inch iron rod set (January, 1985) for the Northwest corner of this 2.5209 acre tract and the 20.0228 acre tract and from which a chain link fence corner was found 3.9 feet South.

THENCE, North 89 degrees 40 minutes 47 seconds East; coincident with the North boundary line of the 20.0228 acre tract; passing at 257.00 feet a 5/8 inch iron rod set (July, 1985) on line; for a total distance of 260.55 feet to the POINT OF BEGINNING.

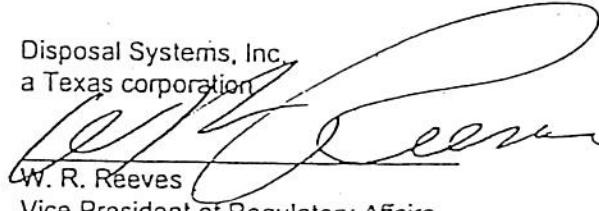
Closure of the Solid Waste Management Units No. 4 and No. 7 in the area described herein has been performed in accordance with a plan designed to meet the Texas Natural Resource Conservation Commission's requirements in 30 Texas Administrative Code, §335.555, which mandates that the remedy be designed to eliminate substantial present and future risk such that no post-closure care or engineering or institutional control measures are required to protect human health and the environment. Future land use is considered suitable for industrial/commercial purposes in accordance with risk reduction standards applicable at the time of this filing. Future land use is intended to be non-residential. The current or future owner must undertake actions as necessary to protect human health or the environment in accordance with the rules of the Texas Natural Resource Conservation Commission.

III

The owner of the site is Disposal Systems, Inc., a Texas corporation, and its address is 2525 Battleground Road, Deer Park, Texas 77536-1914 where more specific information may be obtained from the Vice President of Regulatory Affairs.

EXECUTED this the 29 day of August, 2000

Disposal Systems, Inc.  
a Texas corporation

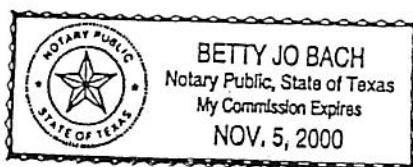
  
W. R. Reeves  
Vice President of Regulatory Affairs

STATE OF TEXAS

HARRIS COUNTY

BEFORE ME, on this the 29 day of August, personally appeared W. R. Reeves, Vice President of Regulatory Affairs of Disposal Systems, Inc., a Texas corporation, known to me to be the person and agent of said corporation whose name is subscribed to the foregoing instrument, and he acknowledged to me that he executed the same for the purposes and in the capacity therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 29th day of August, 2000.



Betty Jo Bach  
Notary Public in and  
for the State of Texas

County of Harris

Texas

My Commission Expires

11-05-00

**SUMMARY OF ANALYTICAL RESULTS**  
 Disposal Systems, Inc.  
 Deer Park, Texas

Sample ID	Sample Depth Interval	Acetone (ug/KG)	Total Arsenic (mpg/KG)	Total Barium (mpg/KG)	Total Beryllium (mpg/KG)	Total Cadmium (mpg/KG)	Total Chromium (mpg/KG)	Total Cobalt (mpg/KG)	Total Copper (mpg/KG)	Total Lead (mpg/KG)	Total Nickel (mpg/KG)	Total Vanadium (mpg/KG)	Total Zinc (mpg/KG)	p-xylene & m-xylene (ug/KG)	bis-(2-Ethylhexyl) phthalate (ug/KG)	Diazinon (ug/KG)
SB-1	2.0' - 4.0'	BDL (200)	7.90	3.10	1.05	1.42	7.88	3.05	6.87	16.4	3.3	26.7	19.4	4.44	BDL (330)	BDL (50)
SB-2	2.0' - 4.0'	BDL (1000)	6.19	1.15	1.01	1.16	7.15	2.62	6.49	11.3	1.7	23.9	18.0	4140	BDL (330)	BDL (50)
SB-3	2.0' - 4.0'	BDL (200)	3.73	1.41	0.87	0.55	4.09	4.29	7.29	10.9	2.5	22.8	14.9	1.2	BDL (330)	BDL (50)
SB-4	2.0' - 4.0'	206	5.05	160	0.93	0.77	5.33	5.20	6.65	9.91	4.5	10.2	17.6	34	BDL (330)	53
SB-5	2.0' - 4.0'	248	3.70	171	0.90	0.69	5.96	4.06	6.26	10.4	3.0	21.8	17.5	BDL (10)	1430	89
SB-6	2.0' - 4.0'	216	3.19	59.6	0.03	BDL (0.5)	4.25	2.41	4.89	6.01	6.5	17.6	10.7	BDL (10)	BDL (330)	BDL (50)
SB-7	2.0' - 4.0'	200	7.04	151	0.93	1.26	7.74	5.20	7.47	14.2	2.1	27.2	18.1	BDL (10)	BDL (330)	BDL (50)
SB-7A (SB-X)	2.0' - 4.0'	346	5.89	158	1.04	0.95	8.71	11.0	7.56	10.4	4.6	28.9	19.8	BDL (10)	BDL (330)	BDL (50)

BDL - Below Detection Limit

*#5*  
Robert J. Huston, *Chairman*  
R. B. "Ralph" Marquez, *Commissioner*  
John M. Baker, *Commissioner*  
Jeffrey A. Saitas, *Executive Director*



## TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

*Protecting Texas by Reducing and Preventing Pollution*

January 1, 2001

Mr. W.R. Reeves  
Vice President Regulatory Affairs  
Disposal Systems, Inc.  
P.O. Box 1914  
Deer Park, Texas 77536-1914

Re: Closure - Risk Reduction Standard No. 2  
Acceptance of Deed Certification and Release From Post-closure Care Responsibilities  
Solid Waste Management Units (SWMUs) No. 4 and No. 7  
Disposal Systems, Inc.  
2525 Battleground Road, Deer Park, Texas  
TNRCC SWR No. 32299  
TNRCC Hazardous Waste Permit No. HW- 50058-001  
EPA ID No. TXD000719518

Dear Mr. Reeves:

The Texas Natural Resource Conservation Commission (TNRCC) received the letter dated September 5, 2000 submitted by Disposal Systems, Inc. containing proof of deed certification for SWMUs No. 4 and No. 7 at the site referenced above. The certification states that contaminants remaining at the site have been remediated to meet non-residential (i.e., industrial/commercial) soil criteria under Risk Reduction Standard (RRS) No. 2 pursuant to Title 30 Texas Administrative Code (TAC) Chapter 335 Subchapters A and S.

In order to attain RRS No. 2, all industrial solid waste and municipal hazardous waste and waste residues must be removed or decontaminated to health-based standards and criteria. Contaminants allowed to remain in place in media of concern (i.e., soil, ground water, surface water and air) must not exceed the health-based cleanup levels as specified in 30 TAC §335.556. A Final Report, documenting that remediation at the facility has attained RRS No. 2 such that no post-closure care or engineering control measures are required, was previously accepted by the TNRCC in our letter dated July 18, 2000.

After review of the proof of deed certification, it appears that the deed certification requirements of 30 TAC §335.560(b) and (c) have been completed. The TNRCC hereby releases the facility from post-closure care responsibilities for the SWMUs No. 4 and No. 7.

Mr. W. R. Reeves  
Page 2

Please submit a written request to the TNRCC Registration and Reporting Section at Mail Code MC-129 to update your Notice of Registration (NOR) with a copy of this letter as an attachment.

Please be aware that it is the continuing obligation of persons associated with a site to ensure that municipal hazardous waste and industrial solid waste are managed in a manner which does not cause the discharge or imminent threat of discharge of waste into or adjacent to waters in the state, a nuisance, or the endangerment of the public health and welfare as required by 30 TAC §335.4. If the actual closure fails to comply with these requirements, the burden remains upon Disposal Systems, Inc. to take any necessary and authorized action to correct such conditions. A TNRCC field inspector may review your Final Report and conduct a closure inspection of the site.

Questions concerning this letter should be directed to me at (512) 239-6210. When responding by mail, please submit an original and one copy of all correspondence and reports to the Corrective Action Section at Mail Code MC-127 with an additional copy submitted to the TNRCC Region 12 Office in Houston, Texas. The TNRCC Solid Waste Registration Number and SWMUs No. 4 and 7 should be referenced in all submittals.

Sincerely,



Kelly K. Carpenter, Project Manager  
Team I, Corrective Action Section  
Remediation Division  
Texas Natural Resource Conservation Commission

KC/kc

cc: Waste Program Manager, TNRCC Region 12 Office, Houston, Texas